



3/8" BUTTERFLY IMPACT WRENCH

MODEL NO: CAT64

PART NO: 3110720

OPERATING & MAINTENANCE INSTRUCTIONS

GC0414

INTRODUCTION

Thank you for purchasing this CLARKE Impact Wrench. The CAT64 is a compact and lightweight unit which allows one-handed control for forward and reverse operation.

IMPORTANT

Please read all of the safety and operating instructions carefully before using this product. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

GENERAL SAFETY RULES



CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

WORK ENVIRONMENT

1. Keep the work area clean and tidy.
2. Dress appropriately - Do not wear loose clothing or jewellery. Tie long hair out of the way.
3. Keep children and visitors away - Do not let children handle the tool.
4. Do not operate the tool where there are flammable liquids or gases.

USE OF POWER TOOLS

1. Stay alert and use common sense - do not operate the tool when you are tired or under the influence of alcohol, drugs or medication.
2. Always wear eye protectors when using the tool. Eye protectors must provide protection from flying particles from the front and the side. Ear protectors should also be worn.
3. Do not overreach - Keep proper footing and balance at all times.
4. Never use oxygen, CO², combustible gasses or any type of bottled gas as a source of power for this tool.
5. Do not connect the air supply hose with your finger on the trigger.
6. Do not exceed the maximum pressure for the tool of 90 psi / 6.2 bar.
7. Keep the air supply hose away from heat, oil and sharp edges.
8. Do not fit the tool to any stand or clamping device that may damage it.
9. Check hoses for leaks or worn condition before use, and ensure that all connections are secure.
10. Do not use the tool for any purpose than that described in this manual.
11. Do not carry out any alterations or modifications to the tool.
12. Always disconnect from the air supply when:
 - Performing any maintenance.
 - The tool is not in use.
 - The tool will be left unattended.

- Moving to another work area.
 - Passing the tool to another person.
13. Never use the tool if it is defective or operating abnormally.
 14. This tool should be serviced at regular intervals by qualified personnel.
 15. Avoid damaging the tool for example by applying excessive force of any kind.
 16. Always maintain the tool with care. Keep it clean for the best and safest performance.
 17. Quick change couplings should not be located at the tool. They add weight and could fail due to vibration.
 18. Do not force or misuse the tool. It will do a better and safer job at the rate for which it was designed.
 19. Do not remove any labels. Damaged labels should be replaced.
 20. This tool vibrates with use. Vibration may be harmful to your hands or arms. Stop using the tool if discomfort, a tingling feeling or pain occurs. Seek medical advice before resuming use.

IMPACT WRENCH SAFETY INSTRUCTIONS

1. Always use the impact wrench in the manner and for the functions described in these instructions.
2. Always ensure the wrench is not moving and disconnected from the air supply when changing sockets etc. Use only Impact Wrench sockets....DO NOT use standard sockets.
3. Always finish tightening wheel nuts or engine parts with a torque wrench or suitable spanner to the correct torque as recommended by the vehicle manufacturer.
4. Always avoid excessive use of the impact wrench. When tightening a nut or bolt, never allow the wrench to impact more than 8 times - to avoid over tightening - 3 to 4 impacts is normally sufficient.
5. Always ensure that the socket is correctly installed before switching on.
6. Always only use sockets which are specified for impact wrench use.
7. Due to the possible presence of asbestos dust from brake linings, always wear suitable respiratory protection.
8. Never carry the impact wrench by the air supply hose.
9. Always disconnect from the air supply when changing bits or when the wrench is not required for immediate use in order to avoid accidental starting.

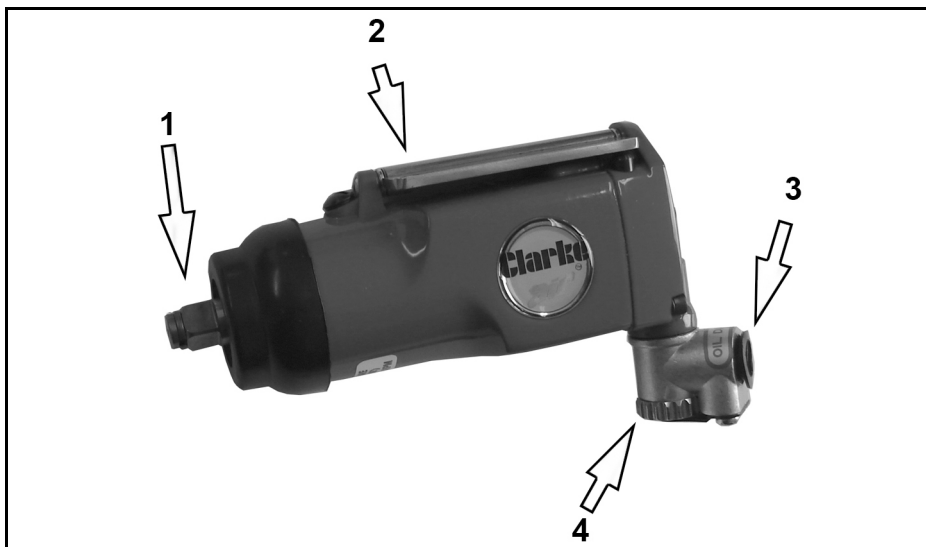
10. Always store this product in a dry, secure place out of reach of children or untrained users.
11. Always use both hands to control the impact wrench.
12. Always ensure the wrench has stopped before putting it down after use.

TRANSPORT & STORAGE

1. Never carry the tool by the air hose.
2. Never carry the tool with your finger on the trigger.
3. When not in use the tool must be disconnected from the air supply and stored in a dry place out of the reach of children (preferably in a locked cabinet).
4. Avoid storing the tool where the temperature is below 0°C.

Please keep these instructions in a safe place for future reference.

OVERVIEW



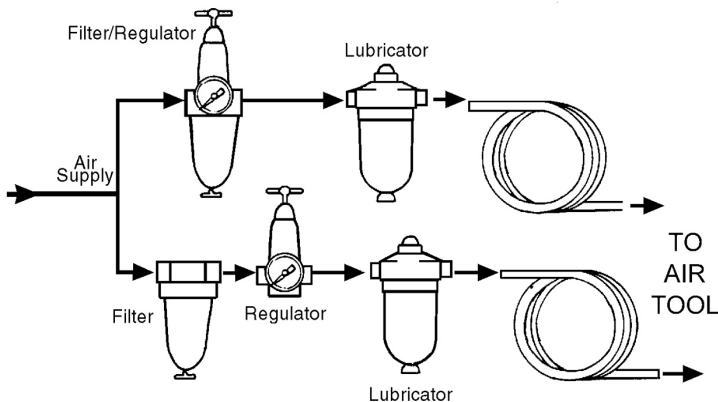
NO	DESCRIPTION	NO	DESCRIPTION
1	Square Drive	3	Airline Connector
2	Forward/Reverse Trigger	4	Speed Control

COMPRESSED AIR REQUIREMENTS



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF COMPRESSORS AND COMPRESSED AIR SUPPLY.

- Use only clean, dry, regulated compressed air as a power source.
- Air compressors used with the tool must comply with the appropriate European Community Safety Directives.
- A build-up of moisture or oil in the air compressor will accelerate wear and corrosion in the tool. Ensure any moisture is drained from the compressor daily and the inlet filter is kept clean.
- If an unusually long air hose is required, (over 8 metres), the line pressure or the hose inside diameter may need to be increased.
- The air hose must be rated at least 150% of the maximum operating pressure of the tool.



- A typical air line layout is shown above. If an automatic in-line filter/regulator is used, it will keep the tool in good condition, but should be regularly checked and topped up with oil. Clarke airline oil should be used, and the lubricator adjusted to approx 2 drops per minute.
- For optimum performance it is recommended that a 3/8" ID hose is used.
- Never exceed the maximum operating pressure for the tool. It is recommended that air pressure to this tool does not exceed 90 psi at the tool when running. Higher pressures and dirty air will shorten the life of the tool due to faster wear and is a possible safety hazard.

BEFORE USE



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF AIR COMPRESSORS AND COMPRESSED AIR SUPPLY.

NOTE: Ensure the compressor is turned off.

1. If required, connect an in-line mini oiler to the tool.
 - A mini oiler helps to prolong the life of the impact wrench.
2. If a mini-oiler is not being used, run a few drops of oil through the tool before use. It can be entered through the airline connector or via the hose at the nearest connection to the air supply.
3. Connect a suitable hose as shown.
4. Connect the other end of the hose to the compressor.
5. Turn on the air supply and check for air leaks. Rectify any found before proceeding.
 - PTFE tape may be useful for sealing threaded connections.



Your air tool is now ready for use.

You can fit a whip hose with a quick fit coupling if required, available from your Clarke dealer.

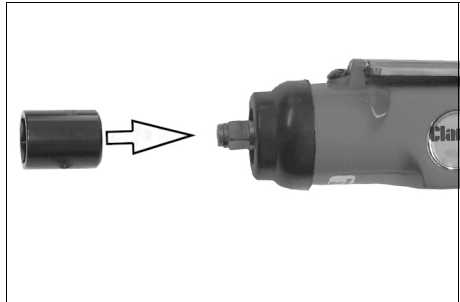
OPERATION



WARNING: NEVER USE STANDARD SOCKETS. THESE MAY SHATTER WITH SERIOUS CONSEQUENCES. ONLY USE IMPACT SOCKETS DESIGNED FOR USE WITH IMPACT TOOLS.

FITTING THE IMPACT SOCKET

1. Select the impact socket you require, which must be in good condition and fit the tool exactly.
2. Push the socket onto the square drive shaft as shown.



OPERATING THE IMPACT WRENCH

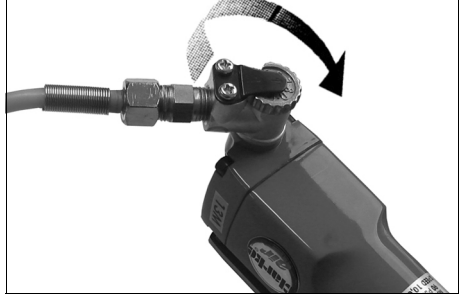
1. Forward/Reverse rotation is selected by pressing the combined Forward/Reverse operating control according to the symbol shown on the tool.
2. For normal tightening, the wrench should be operated in the forward (F) direction at position.
3. For loosening, the wrench should be operated in the reverse (R) direction.
4. Locate the socket over the nut to be tightened or loosened.
5. Squeeze the trigger to start the wrench in either forward or reverse direction.
6. Release the trigger switch to stop the wrench.
 - The anvil will continue to rotate very briefly after the trigger has been released.



ADJUSTING THE POWER

1. To adjust the power, set the air regulator to one of the 8 settings available. (Setting 1-Low, 8 -High)
 - These numbers are only for reference and do not denote a specific amount of power.

For maximum power when removing stubborn nuts, turn the supply regulator to its highest setting.



DISCONNECTING THE AIR SUPPLY

1. Do not disconnect the air supply hose until the compressor has been shut down and the compressed air released.
2. Refer to the compressor instruction manual for the procedure to shut down and vent the compressed air.
3. Once the pressure has been released, disconnect the air supply hose from the air tool.

MAINTENANCE



WARNING: MAKE SURE THAT THE AIR TOOL IS DISCONNECTED FROM THE AIR SUPPLY BEFORE STARTING ANY CLEANING, OR MAINTENANCE PROCEDURES.

DAILY

1. Before use, drain water from the airline filter and compressor.
2. Pour a few drops of Clarke air-line oil, into the tool air inlet. This should be carried out regardless of whether or not an in-line mini oiler is used. If an in-line mini oiler is not used, this procedure should be repeated after every two to three hours of use, or at the start of the working day.
3. Keep the body of the tool clean and free from debris.

CLEANING

1. Grit or gum deposits in the tool may reduce efficiency and cause the tool to run erratically. This condition can be corrected by cleaning the air strainer and flushing out the tool with gum solvent oil.
2. Failing this, the tool should be disassembled, thoroughly cleaned, dried and reassembled.
3. The tool may be dismantled by removing the rear cover using the hex key supplied prior to replacing any worn or damaged parts. You may prefer to take the tool to your Clarke dealer if internal maintenance is required.
4. While in a dismantled state, it may be desirable to grease the hammer mechanism and applying a small amount of good quality bearing grease.
 - This may be better left to your Clarke dealer.
 - A hex key is provided for removing the end cover from the wrench.

STORAGE

- If the tool is to be stored, or is idle for longer than 24 hours, run a few drops of Clarke air line oil into the air inlet, and run the tool for 5 seconds in order to lubricate the internal parts. Store the tool safely in its box in a dry, secure environment.

TROUBLESHOOTING

SYMPTOM	PROBLEM	SOLUTION
Tool runs at normal speed but slows down under any load.	<ol style="list-style-type: none"> 1. Motor parts worn. 2. Worn or sticking mechanism due to lack of lubricant. 	<ol style="list-style-type: none"> 1. Return to Clarke dealer for repair. 2. Drip air tool lubricating oil into air inlet. Allow oil to soak moving parts before using.
Tool runs slowly. Air flows weakly from exhaust.	<ol style="list-style-type: none"> 1. Motor parts jammed with gum/dirt. 2. Air-line regulator in closed position. 3. General airflow blocked by dirt. 	<ol style="list-style-type: none"> 1. Examine inlet air filter for blockage. Drip a few drops of air tool lubricating oil into air inlet. 2. Adjust in-line regulator to open position. 3. Operate tool in short bursts.
Tool will not run. Air flows freely from exhaust.	<ol style="list-style-type: none"> 1. Motor vanes stuck due to buildup of foreign material. 	<ol style="list-style-type: none"> 1. Disconnect air supply and rotate tool assembly manually. 2. Try operating tool in short bursts. 3. Tap motor housing gently with a rubber mallet. 4. Drip a few drops of air tool lubricating oil into air inlet to soak moving parts.
Tool will not shut off.	<ol style="list-style-type: none"> 1. Throttle O-rings damaged or ill-fitting in seat. 	<ol style="list-style-type: none"> 1. Return to Clarke dealer for repair.

PERFORMANCE

Please note that factors other than the tool may effect its operation and efficiency such as reduced compressor output, excessive drain on the airline, moisture or restrictions in the air-line, or the use of connectors of improper size or poor condition which will reduce air supply.

****Clarke Air Line Oil (part no. 3050825) is available from your Clarke dealer.**

Your Clarke air tool has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local Clarke dealer.

SPECIFICATION

Model Number	CAT64
Part Number(s)	3110720
Min. Hose Size (ID)	1/4" BSP
Max Operating Pressure	90 psi (6.2 bar)
Max Air Consumption	15 cfm (max @90psi) / 2.5 cfm average
Drive size	3/8" Square
Max Torque	75 ft/lb
Max Speed	10,000 rpm
Air Inlet Size	1/4" BSP Female
Sound Pressure Level (LpA dB)	90.3 dB(A)
Sound Power Level (LwA dB)	100.3 dB(A)
Vibration Levels	2.89 m/s ² (uncertainty factor K= 1.45m/s ²)
Weight(s)	0.9 kg

Please note that the details and specifications contained herein are correct at the time of going to print. However Clarke International reserve the right to change specifications at any time without prior notice.

ACCESSORIES

A wide range of accessories is available including filter/regulators, lubricators, high-pressure hoses (5 to 50 metres) etc.

Suitable 3/8" Socket Sets include:

CIS9/13 13 Piece Set (part no 1800300)

CIS9/32 32 Piece Set (part no 1800305)

CIS12/35 36 Piece Set (part no 1800340)

Contact your Clarke dealer for further information or the Clarke International Service Department.

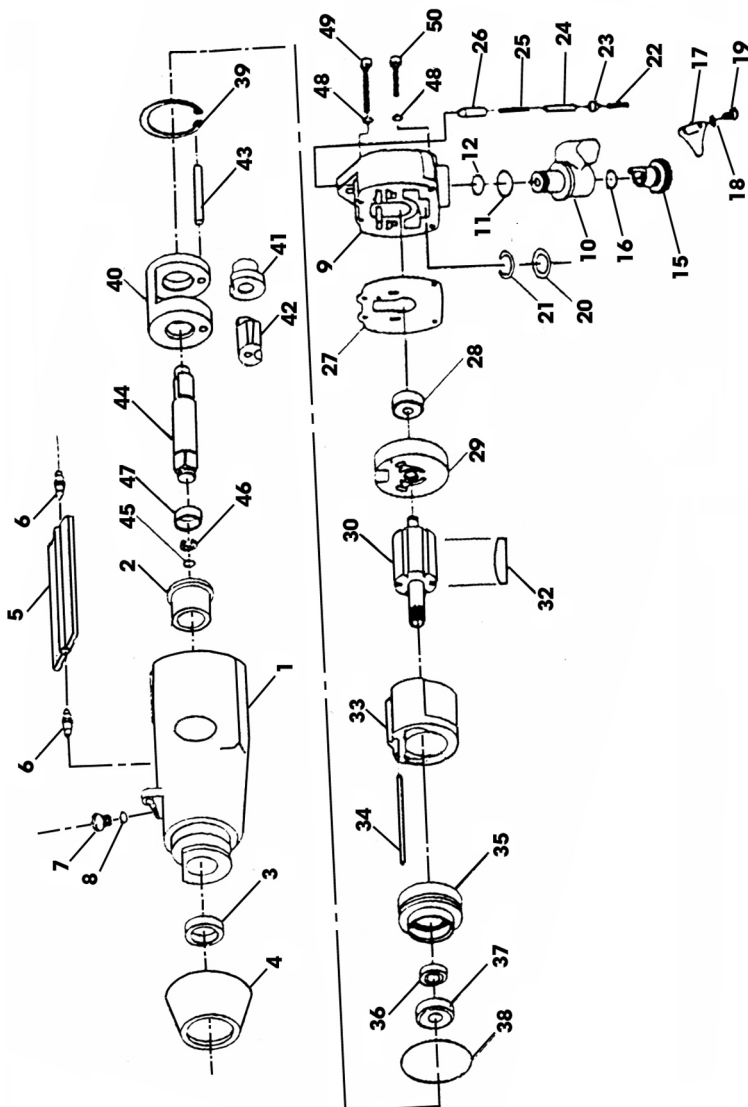
PARTS LIST

No	Description
1	Main Housing
2	Nose Bushing
3	Oil Seal
4	Rubber Nose Guard
5	Throttle Lever
6	Throttle Pin
7	Oiler Screw
8	O-Ring
9	Back Cap
10	Air Inlet Block
11	O-Ring
12	O-Ring
13	N/A
14	N/A
15	Regulator
16	O-Ring
17	Retaining Plate
18	Locking Washer
19	Screw
20	Fixing Ring
21	Retaining Ring
22	Valve Spring
23	Valve Seat
24	Valve
25	Plunger Spring
26	Plunger

No	Description
27	Rear Cap Gasket
28	Ball Bearing
29	Rear End Plate
30	Rotor
31	N/A
32	Rotor Blade
33	Cylinder
34	Motor Pin
35	Front End Plate
36	Oil Seal
37	Ball Bearing
38	O-Ring
39	Snap Ring
40	Hammer Cage
41	Cam
42	Hammer
43	Hammer Pin
44	Anvil
45	O-Ring
46	Socket Retaining Ring
47	Cage Bushing
48	Lock Washer
49	Cap Screw Long
50	Cap Screw Short

When requesting spare parts from the above list, please quote the pre-fix
KL106101 - KL106150.

PARTS DIAGRAM



DECLARATION OF CONFORMITY

ClarkeTM
INTERNATIONAL

This is an important document and should be retained

DECLARATION OF CONFORMITY



We declare that this product complies with the following standards/directives:

- **89/392/EEC**
- **91/368/EEC**
- **92/68/EEC**
- **93/44/EEC**

Description: **AIR TOOL RANGE**

Model No: **CAT64**

Serial (Batch) No: **See Product Date Plate**

Signed: _____

Clarke[®] INTERNATIONAL
Hemnal Street, Epping, Essex CM16 4LG

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